

U.S. Application No.: New
PRELIMINARY AMENDMENT

Attorney Docket: 4082.001

IN THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1-2 (Canceled)

3. (New) A method for preparing dendrons and dendrimers with heterocyclic substructures and their derivatives comprising:

synthesizing the dendrons and dendrimers by non-classic routes and under a microwave.

4. (New) The method of claim 3 wherein the synthesis starts from heterocyclic substructures of C2 and C4 substituted iminoethers.

5. (New) The method of claim 4 wherein the synthesis includes adding sequential and iterative polycondensation, cyclization, esterification and amidation reactions.

6. (New) The method of claim 4 wherein the synthesis comprises employing sequential and iterative polycondensation between polyalcohols and carboxylic acids or polycarboxylic acids and alcohols.

7. (New) The method of claim 4 wherein the synthesis comprises employing sequential and iterative reactions polycondensation

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between aminopolyols and carboxylic acids or polycarboxylic acids and polyamines to obtain amidopolyols or aminoesters.

8. (New) The method of claim 4 wherein the synthesis comprises employing sequential and iterative reactions of amidation between polyamines and carboxylic acids or polyacids and amines.

9. (New) The method of claim 4 wherein the synthesis comprises employing sequential and iterative reactions of cyclization from amidopolyols to obtain iminoethers and their derivatives.

10. (New) The method of claim 4 wherein the synthesis comprises:
reactions of cyclic iminoethers with at least one of carboxylic acids, anhydrides, esters, bases, aldehydes, alkyl halides, amines, isocyanates, aromatic thiols, by pyrolysis or hydrolysis of the heterocycles; or
reactions with aminoalcohols or diaminoalcohols, in alternated and iterative sequences, for the formation of the basic substructures.

11. (New) The method of claim 3 wherein the microwave is between 30 and 300 Watt at 2450 MHz and at atmospheric pressure or under inert atmosphere.

12. (New) The method of claim 4 further comprising the step of isolating and purifying with a polar, a non-polar solvent, or mixture thereof.